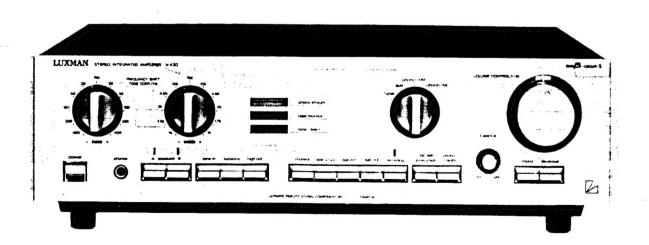
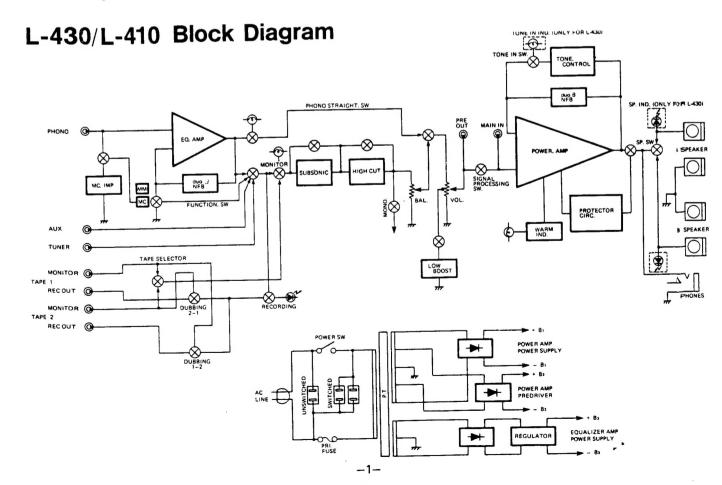
# SERVICE MANUAL

DUO-BETA CIRCUIT STEREO L-430/L-410 INTEGRATED AMPLIFIER

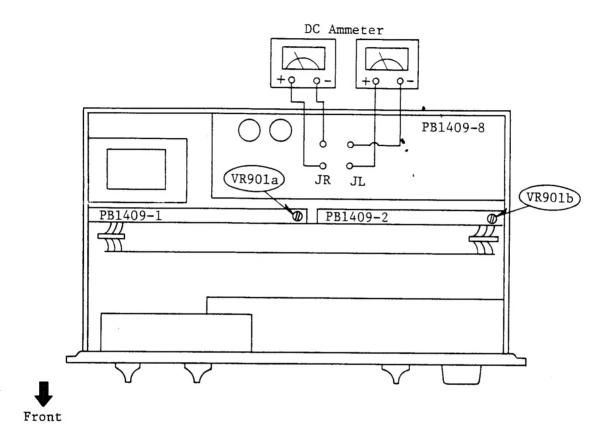


#### CONTENTS

	•			
Block Diagram	1			
Adjustment Procedures	2			
n .1.1.1 1.77			_	
E1 oded View Parts List	4	-	5	
Packing Material Parts List	Ю			
PR-1408-1 Parts List	. /			
PR-1408-2 Parts List				
PR-1408-3 Parts List				
PB-1408-4 Parts List				
PB-1408-5 Parts List			•	3
PR-1408-7 Parta List				
PR-1408-8 Parts List				
PR-1408-9 Parts List				
PR-1408-10 Parts List			•	
PR-1408-11 Parts List	10			
DR 1/00 12 Parts list	11			
PR-1409A-1.2 Parts List	11	-	12	
PR-1/09A-3 Parts List	13			
DR_1/00A-/ Parts List	13			
DP 1/00A-5 Parts List	13			
DB-1/004-8 Parts List	14	_	17	
DP 1/10 Parts list	18			
TC Wardling Cuido	19			
Catanatic Diogram I-430	20	-	21	
Schematic Diagram, L-430 (Japan)	22	_	23	
Schematic Diagram, L-430 (First Lot)	24	_	25	
Cabanatia Diagram I-410	26	_	27	
Schematic Diagram, L-410 (Japan)	28	_	29	
Specifications	30			
Shectifications				

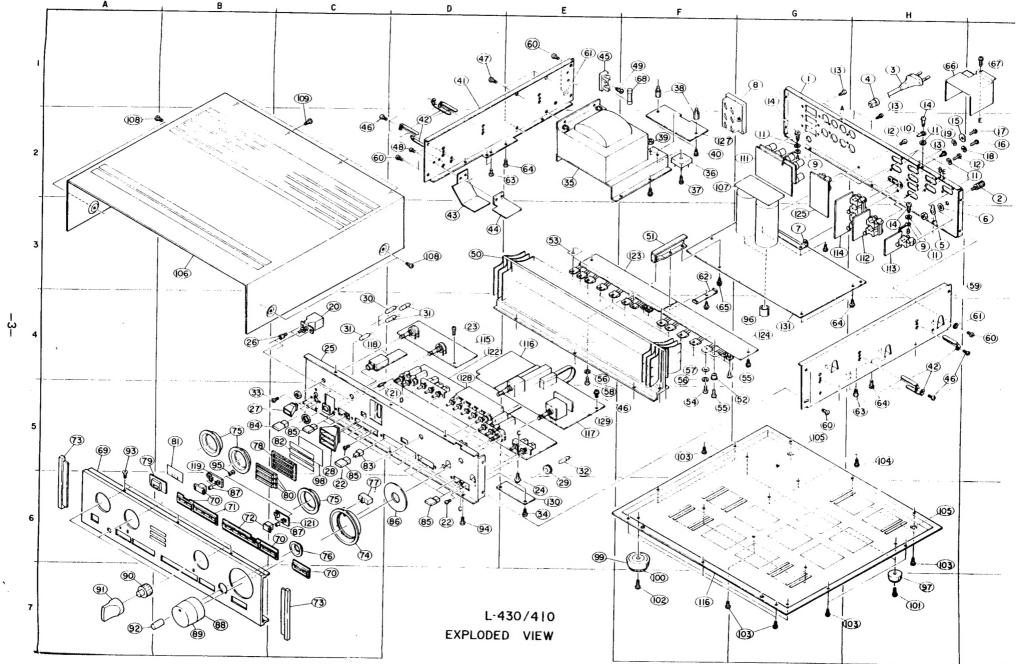


# **Adjustment Procedures**



Bias (Idle) Current Adjustment

- 1. Disconnect the wires on the PB-1409A-8 from the pins (JL & JR).
- Connect an DC Ampere Meter between the pins and wires as shown in the figure. But in that case, make sure each polarity is correct.
- 3. Make the power switch ON and after 3 minutes. Adjust VR901a (L-ch) on the PB-1409A-1 and VR901b (R-ch) on the PB-1409A-2 to make the idling current 60mA+10mA(L-430), 50mA+10mA(L-410).
- 4. Connect the wires to the pins after adjustment.

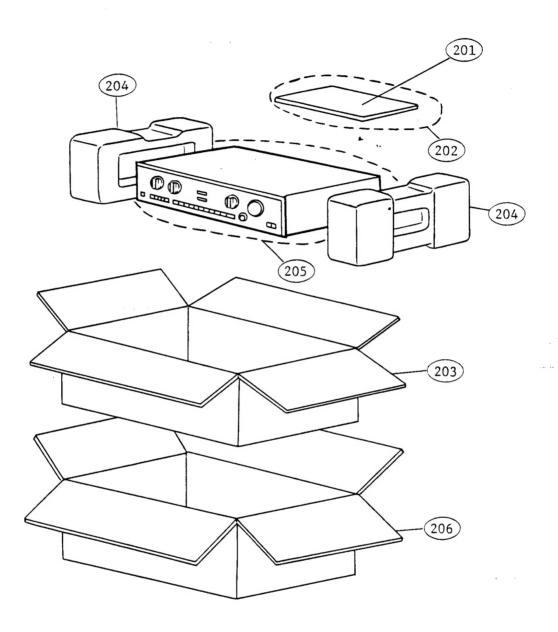


Index	Symbol	Stock No.	Stock No.	Description
	No.	L410	L430	
G-1	1	UC1220-4	UC1220-1	Back Panel (J)
		UC1220-5	UC1220-2	Back Panel (E,U)
		UC1220-6	UC1220-3	Back Panel (S)
I-2	2	AG0048	AG0048	GND Terminal
H-1	3	BK0022	BK0022	AC Cord (SD)(SK)
		BK0023	BK0023	AC Cord (SG)
		BK0035	BK0035	AC Cord (J)
		BK0036	BK0036	AC Cord (SB)
		BK0062	BK0062	AC Cord (EK)
		BK0067	BK0067	AC Cord (U,EZ)
H-1	4	BU0033	BU0033	Cord Stopper (EK,EZ,J,SD,U,SK)
		BU0039	BU0039	Cord Stopper (SB,SG)
H-3	5	YZB060H	YZB060H	Earth Lug
I-3	6	YWD060A	YWD060A	Toothed Lock Washer 6¢
G-3	7	UR1316	UR1316	Bracket
G-1	8	AC0016	AC0016	AC Outlet 3P (E,J)
	_	AC0017	AC0017	AC Outlet 1P (UP)
H-3/G-2	9	YZB030X	YZB030X	Eurth Lug
H-2	10	YZB030H	YZBO30H	Eurth Lug B-5
G-2/I-2	11	YWE030S	YWE030S	Toothed Lock Washer 36
H-2/I-2	12	YAA30C06	YAA30C06	Bind Scr. M3x6 Blk
H-1/G-1	13	YJB30C08	YJB30C08	Tpg. Bind Scr. M3x8 B1k
H-1/G-1	14	YJB30A06	YJB30A06	Tpg. Bind Scr. M3x6
H-2	15	WZ0070	WZ0070	Changeover Disk
I-2	16	YAA26C04	YAA26C04	Bind Scr. M2.6x4
I-2	17	YAA26C06	YAA26C06	Bind Scr. M2.6x6
1-2	18	YWE026S	YWE026S	Toothed Lock Washer
H-2	19	YWA030U	YWA030U	Nylon Washer
C-4	20	SP0032	SP0032	Power SW (U)
		SP0090	SP0090	Power SW (E,S)
		SP0172	SP0172	Power SW (J)
D-5	21	US0003	US0003	Stand, PCB
D-6/C-6	22	YAA30A06	YAA30A06	Bind Scr. M3x6
D-4	23	YJB30A06	YJB30A06	Tpg. Bind Scr. M3x6
E-6	24	YEB30A06	YEB30A06	Sems Bind Scr. M3x6
C-4	25	UB1079	UB1079	Sub Panel
B-4	26	US1068	US1068	Stand 1068
B-5	27	UN1049	UN1049	Lamp Holder
C-5	28	UN1050	UN1050	Lamp Holder
		WU1035	WU1035	Filter
E-6	29	UZ1077	UZ1077	Gum Bush
C-4	30	AL0072	AL0072	Lamp 24V 40mA Phone Straight
D-4/C-4	31	AL0073	AL0073	Lamp 24V 40mA Tone Direct/Tape monitor/Warm UP
E-5	32	AL0074	AL0074	Lamp 24V 40mA Power IND.
B-5	33	YAA30A04	YAA30A04	Bind Scr. M3x4
E-6	34	YEB30A06	YEB30A06	Sems Bind Scr. M3x6
E-2	35	PT2622	PT2619	Power Trans (E,S)
		PT2623	PT2620	Power Trans (J)
		PT2624	PT2621	Power Trans (U)
F-2	36	TD0110	TD0110	Bridge Diode S5VB40-F
F-2	37	YJB30A14	YJB30A14	Tpg. Bind Scr. M3x14
F-1	38	US1068	US1068	Stand (E,S)
F-2	39	YNK030A	YNK030A	Flange Nut $3\phi$ (E,S)
F-2	40	YJB40A06	YJB40A06	Tpg. Bind Scr. M4x6
		YAA30A04	YAA30A04	Bind Scr. M3x4
D-1	41	UD1058	UD1058	Side Panel L
H-4/D-2	42	UZ1114	UZ1114	Bracket
D-3	43	UW1191	UW1191	Spacer
D-3	44	UK1134	UK1134	Shield Plate
E-1	45	Non Use	AH0016	Fuse Holder (J)
F-5/C-2	46	YJB30A06	YJB30A06	Tpg. Bind Scr. M3x6
D-1	47	YJB40A08	YJB40A08	Tpg. Bind Scr. M4x8
D-2	48	YAA30A06	YAA30A06	Bind Scr. M3x6
F-1	49	Non Use	YJB30A08	Tpg. Bind Scr. M3x8 (J)
	50	BE1094	BE1094	Heat Sink

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No.   L410	Index		Stock No.		Description	
C-5   52   B100065   B10065   C-7   F-5   53   B100221   YAA30A10   F-4   F-4   55   YAA30A08   YAA30A06   F-4   F-4   57   YAA30A06   YAA30A06   F-4   F-4   57   YAA30A06   YAA30A06   F-4   F-4   67   YEBA0A08   F-4   68   YEBA0A06   H-1   66   YEBA0A06   YEBA0A08   SEED BIND ST. MISCON   H-1   67   YEBA0A08   YEBA0A08   SEED BIND ST. MISCON   H-1   67   YEBA0A06   THE ST. MISCON   H-1   70   YEBA0A06   THE ST. MISCON   THE ST. MISCO				L430		
F-5/F-3   53	1			1		
P-5   P-6   T-3   54				i		
GV F-5  55					l .	
F-4  56					l .	
F-4   57	1		1			
F-5   58	1		1	1		
T-3  59	1		1			
E-I/I-4   61	I-3	59	UD1059	UD1059	Side Panel R	
F-3  62				YJB40A08	Tpg. Bind Scr. M4x8	
H-5/Fc-2  63	,		1			
G-4/F-2  64   YEB30A06   Sems Bind Scr. M3x6   Sems Bind Scr. M3			1			
F-4						
H-1						
T-1			1			• ,
F-1						
A-5 69 WA1258-4 W1258-3 Front Panel Escutcheon Escutcheon Co-6 74 W01154 W01153 W01153 Co-6 74 W01140-1 W01140-1 Co-6 76 W01160 W1160-1 Co-6 76 W01160 W1160-1 W01141-1 Co-6 76 W01160 W1160-1 W01160-1 A-5 79 W01120 W11000 A-5 79 W01120 W01020 Co-6 80 W01121 B-5 81 W01031 Co-5 82 W01033 Co-5 83 UZ1378 W1153-3 W01033 Co-5 83 UZ1378 W1163 B-7 89 WX1129 W11031 Co-6 86 W05005 Co-6/B-6 87 UL1010 UL1010 W1160-1 W01060 B-7 W05005 Co-6/B-6 87 UL1010 UL1010 W1160-1 W05005 Co-6/B-6 87 UL1010 W1160-1 W05005 Co-6/B-6 87 UL1010 W1160-1 W05005 Co-6/B-6 97 UV1192 W1160-1 W1160						(1)
B-6	A-5	69				(0)
B=6	C-6/B-6	70	WD1153			
C-7/A-5				WD1154		•
C-6	1					
C-6   7-7   Well   We	1					
C-6	1					
C-6						
B-5						
A-5						
C-6						
B-5	3					
C-5	1					
C-5	1 1					
B-5						
D-6 86 WQS005 UL1011 WJ1163 WJ1163 B-7 88 WJ1164 WK1140 WJ1190 WJ	1					
C-6/B-6			WJ1189	WJ1189	Mold Knob	
B-7						
B-7						
A-7 90 W1164 A-7 91 WK1140 A-7 92 WJ1190 A-5 93 YJE30A06 D-6 94 YJB30C06 B-5 95 YAB30C55 G-4 96 UW1192 H-7 97 WN1032 WN1032 WN0007 C-6 98 WJ1024 WN1024 WN1024 WN1024 WN1024 WN0007 WN0007 H-7 101 YJB40C12 YJB40C	1					
A-7 91 WK1140 WK1140 WH190 WJ190 WJ191 WJ192 WJ1000						
A-7 92 WJ190 WJ190 YJE30A06 YJE30A06 Plat Tpg. Scr. M3x6 Plat Tpg. Scr. M3x6 Blk Rivet 3.5x5.5 Blk Spacer WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN						
A-5 93 YJE30A06 D-6 94 YJE30C06 PS 5 95 YRA30C55 PS 395	1					
D-6 94 YJB30C06 B-5 95 YRA35C55 YRA30C55 YRA30C55 C-4 96 UUI192 WN1032 WN0007 WN0007 WN0007 WN0007 WN0007 WN1024 WN1024 WN1024 WN1024 WN1024 WN1024 WN1024 WN1025 WN0007 WN0007 WN1025 WN0007 WN1025 WN0007 YJB40C12 YJB40C08 YJB30C06 C-1 109 YJB30C06 C-1 109 YJB30C06 C-1 109 YJB30C06 C-1 109 YJB30C06 C-1 110 H-3 112 G-4 114 D-5 115 F-7 116 UE1122 UE1122 UE1122 Bottom Plate PB-1408-3 Ass'y PB-1408-1 Ass'y PB-1408-2 Ass'y PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1408-2 A						
B-5						
G-4 96						
H-7 97 WN1032 WN0007 WN0007 WN0007 Frannleg (E,S,U)  W1024 WN1024 WN1024 WN1025 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0007 WN0007 WN0007 WN00007 WN0007 WN0007 WN0000	1			4		
C-6	H-7	97			I	(J)
E-6 99 WN1026 WN1024 WN1024 WN0007 WN0007 F-7 100 WN1025 WN0007 WN0007 WN0007 WN0007 Felt for Foot (J) WN1025 Felt for Foot (J) Trannleg (E,S,U) Trannleg (E,S,U) WN1025 Felt for Foot (J) Trannleg (E,S,U) Trannl					Trannleg	
WN1024   WN0007   WN0007   WN0007   WN0007   WN0007   WN1025   WN1025   WN0007   W						
F-7 100 WN0007 WN0007 WN0007 WN0007 H-7 101 YJB40C12 YJB40C12 YJB40C12 TPg. Bind Scr. M4x12 (E,S,U) TPg. Bind Scr. M4x14 (J) TPg. Bind Scr. M4x12 (E,S,U) TPg. Bind Scr. M4x14 (J) TPg. Bind Scr. M4x12 (E,S,U) TPg. Bind Scr. M4x8 Blk TPg. Bind Scr. M4x8 TPg. Bind Scr. M3x6 TPg	E-6	99				
F-7 100 WN1025 WN0007						
WN0007	F_7	100				
H-7 101 YJB40C12 YJB40C12 Tpg. Bind Scr. M4x12 (F,S,U)  G-7/F-5 103 YJB40C08 YJB40C08 Tpg. Bind Scr. M4x8 Bik  H-6/G-5 105 YWE030S YWE030S B-3 106 UG1039 UG1039 F-2 107 UW1193 UW1193 Spacer  D-3 108 YJB40C08 YJB40C08 Tpg. Bind Scr. M4x8 Bik C-1 109 YJB30C06 G-2 111 H-3 112 H-3 113 G-4 114 D-5 115 F-7 116 UE1122 UE1122 UE1122 Bottom Plate E-5 117 C-4 118 C-6 121 D-4 122 F-3 123 G-4 124 G-3 125 F-2 127 UF18-1408-1 Ass'y FB-1408-1 Ass'y FB-1408-1 Ass'y FB-1408-1 Ass'y FB-1408-1 Ass'y FB-1408-1 Ass'y FB-1409A-1 Ass'y FB-1409A-1 Ass'y FB-1409A-2 Ass'y FB-1409A-3 Ass'y FB-1409A-3 Ass'y FB-1409A-4 Ass'y FB-1409A-3 Ass'y FB-1409A-4 Ass'y FB-1409A-3 Ass'y FB-1409A-4 Ass'y FB-1409A-3 Ass'y FB-1409A-3 Ass'y FB-1409A-3 Ass'y FB-1409A-3 Ass'y FB-1409A-3 Ass'y FB-1409A-4 Ass'y FB-1409A-3 Ass'y FB-1409A-4 Ass'y FB-1409A-3 Ass'y FB-1409A-4 Ass'y	r-/	100	1			
F-7 102 YJB40C14 YJB40C12 Tpg. Bind Scr. M4x14 (J)  G-7/F-5 103 YJB30C06 YJB30C06 YJB30C06 YJB40C08 YJB40C08 H-5 105 YWE030S WE030S WF-2 107 UW1193 UW1193 UW1193 PF-2 107 UW1193 UW1193 PB-1408-1 Ass'y PB-1408-4 Ass'y PB-1408-8 Ass'y PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1408-8 Ass'y PB-1408-1 Ass'y PB-1408-2 Ass'y PB-1408-1 Ass'y PB-1408-2 Ass'y PB-1408-2 Ass'y PB-1408-2 Ass'y PB-1408-2 Ass'y PB-1408-3 Ass'y PB-1408-4 Ass'y PB-14	H_7	101				(2,5,0)
YJB40C12   YJB40C12   YJB30C06   YJB30C06   YJB30C06   YJB30C06   YJB40C08						(1)
G-7/F-5 103	'					
H-5 104	G-7/F-5	103				\_, <del>\_</del> ,\_,
H-6/G-5 105 YWE030S UG1039 UG1039 Bonnet F-2 107 UW1193 UW1193 Spacer D-3 108 YJB40C08 YJB40C08 C-1 109 YJB30C06 YJB30C06 G-2 111 H-3 112 H-3 113 G-4 114 D-5 115 F-7 116 UE1122 UE1122 PB-1408-4 Ass'y PB-1408-7 Ass'y PB-1408-8 Ass'y PB-1408-1 Ass'y PB-1408-8 Ass'y PB-1408-1 Ass'y PB-1409A-1 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-4 Ass'y						j
F-2 107		1	1			
D-3 108	1		1			
C-1 109						
G-2 111		,				
H-3 112 H-3 113 G-4 114 D-5 115 F-7 116 E-5 117 C-4 118 C-6 121 D-4 122 F-3 123 G-4 124 G-3 125 F-2 127  H-3 112  PB-1408-2 Ass'y PB-1408-3 Ass'y PB-1408-4 Ass'y PB-1408-7 Ass'y PB-1408-7 Ass'y PB-1408-11 Ass'y PB-1408-12 Ass'y PB-1408-12 Ass'y PB-1409A-1 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-4 Ass'y PB-1408-6 Ass'y PB-1408-7 As			ANR30C06	YJB30C06		
H-3 113						
G-4 114   D-5 115   F-7 116   UE1122   UE1122   Bottom Plate   PB-1408-7 Ass'y   PB-1408-7 Ass'y   PB-1408-7 Ass'y   PB-1408-8 Ass'y   PB-1408-8 Ass'y   PB-1408-11 Ass'y   PB-1408-12 Ass'y   PB-1409A-1 A						ı
D-5 115 F-7 116 UE1122 UE1122 Bottom Plate PB-1408-7 Ass'y PB-1408-8 Ass'y PB-1408-11 Ass'y PB-1408-12 Ass'y PB-1408-12 Ass'y PB-1409A-1 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y						l
F-7 116 UE1122 UE1122 Bottom Plate PB-1408-7 Ass'y PB-1408-8 Ass'y PB-1408-11 Ass'y PB-1408-12 Ass'y PB-1408-12 Ass'y PB-1409A-1 Ass'y PB-1409A-2 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-4 Ass'y						
E-5 117 C-4 118 C-6 121 D-4 122 PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1408-1 Ass'y PB-1409A-1 Ass'y PB-1409A-2 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-4 Ass'y PB-1409A-4 Ass'y PB-1409A-4 Ass'y PB-1409A-4 Ass'y PB-1409A-4 Ass'y PB-1409A-5 Ass'y PB-1409A-6 Ass'y PB-1409A-6 Ass'y PB-1409A-7 Ass'y PB-1408-7 Ass'y PB-1408-7 Ass'y PB-1408-7 Ass'y PB-1408-8 Ass'y PB-1408-1 Ass'y PB-1409A-1 Ass'y			UE1122	UE1122		
C-4 118 C-6 121 D-4 122 F-3 123 G-4 124 G-3 125 F-2 127 PB-1408-8 Ass'y PB-1408-11 Ass'y PB-1408-12 Ass'y PB-1409A-1 Ass'y PB-1409A-1 Ass'y PB-1409A-3 Ass'y PB-1409A-4 Ass'y PB-1409A-4 Ass'y PB-1409A-4 Ass'y PB-1409A-4 Ass'y PB-1409A-5 Ass'y PB-1409A-6 Ass'y PB-1409A-7 Ass'y PB-1409A-7 Ass'y PB-1409A-7 Ass'y PB-1409A-7 Ass'y PB-1409A-7 Ass'y PB-1409A-7 Ass'y PB-1408-8 Ass'y PB-1408-11 Ass'y PB-1408-12 Ass'y PB-1409A-1 Ass'y PB-1408-11 Ass'y PB-1409A-1 Ass'y PB-1409A-1 Ass'y PB-1409A-1 Ass'y	1					. \
D-4 122 F-3 123 PB-1409A-1 Ass'y PB-1409A-2 Ass'y PB-1409A-3 Ass'y PB-1409A-3 Ass'y PB-1409A-4 Ass'y PB-1409						n <b>l</b>
F-3 123   PB-1409A-1 Ass'y   PB-1409A-2 Ass'y   PB-1409A-3 Ass'y   PB-1409A-3 Ass'y   PB-1409A-4 Ass'y   PB-1409A-3 Ass'y   PB-1409A-4 Ass'y   PB-						
G-4 124 G-3 125 F-2 127 PB-1409A-2 Ass'y PB-1409A-3 Ass'y PB1409A-4 Ass'y (ES)					The state of the s	
G-3 125   PB-1409A-3 Ass'y   PB1409A-4 Ass'y   P			ļ	i		
F-2 127 PB1409A-4 Ass'y (ES)						ļ
					•	(70)
	r-2	127				
D-4 128 PB-1409A-5 Ass'y	D-4	128				(3,0)
G-4 131 PB-1409A-3 ASS Y				į		

# Packing Material Parts List

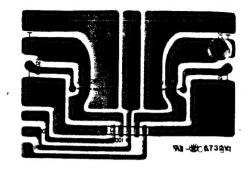


Symbol No.	Stock No. L410	Stock No. L430	Description	
201	MA0161-2	MA0161-2	Owner's Manual	(J)
	ME0248	ME0248	Owner's Manual	
202	XC1031	XC1031	Plastic Bag	
203	XA1329	XA1327	Carton	
204	XB1067	XB1067	Styrol	
205	XC1018A	XC1018A	Plastic Bag	
206	XH1065	XH1065	Outer Carton	(E,S,U)

## PB-1408-1 Parts List

Symbol No.	Stock No.	Stock No.	Description		
	L410	L430			
(Speaker T	erminal)				
	AT0153	AT0153	8P YKD31-0134	4	
(Capacitor	)				
C1001a,b	CQ0041	CQ0041	1000pF 50	OV St	(SD)
C1002a,b	CQ0041	CQ0041	1000pF 50	OV St	(SD)

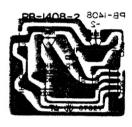
#### PB-1408-1



## PB-1408-2 Parts List

Symbol No.	Stock No. L410	Stock No. L430	Description
(Pin Jack)			
	AT0151	AT0151	4P T5754-AA Aux,Tuner
(Capacitor	)		
C301a,b	CQ1401	CQ1401	1000pF 50V St (SD)
C302a,b	CQ1401	CQ1401	1000pF 50V St (SD)
(Resistor)			
R301a,b	RB0254	RB0254	1M 1/4W Rd
R302a,b	RB0254	RB0254	1M 1/4W Rd

PB-1408-2



## PB-1408-3 Parts List

Symbol No.	Stock No.	Stock No.	Description			
	L410	L430	Dedet Ipt Ion			
(Pin Jack)	(Pin Jack)					
	AT0152A	AT0152A	2P T5753-BA Phone	)		
(Choke Coi	1)					
L101a,b	LA1065	LA1065	S-471J	(SD)		
L102a,b	LA1065	LA1065	S-471J	(SD)		
(Capacitor	)			* 1000		
C101a,b	CQ1407	CQ1407	150pF 50V St	(SD)		
C102a,b	CQ1407	CQ1407	150pF 50V St	(SD)		
C103	Non Use	CQ0009	0.047uF 50V My	7 (SD)		
(Resistor)	(Resistor)					
R101a,b	RB0180	RB0180	820 1/4W Ro	i (SD)		

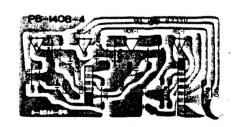
PB-1408-3

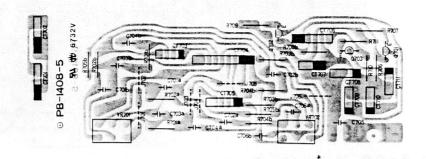


## PB-1408-4 Parts List

Symbol No.	Stock No.	Stock No.	Description		
	L410	L430			
(Pin Jack)					
	AT0151 AT0151 4P T5754-AA(Moni-1 Rec-2)				
	AT0151	AT0151	4P T5754-AA(Moni-2 Rec-1)		
(Capacitor	)				
C401a,b	CQ1401	CQ1401	1000pF 50V St (SD)		
C402a,b	CQ1401	CQ1401	1000pF 50V St (SD)		
C403	CK0140	CK0140	0.047uF 50V Ce		
C404	CK0140	CK0140	0.047uF 50V Ce		
(Resistor)					
R401a,b	RB0254	RB0254	1M 1/4W Rd		
R402a,b	RB0254	RB0254	1M 1/4W Rd		
R403a,b	RB0254	RB0254	1M 1/4W Rd		
R404a,b	RB0254	RB0254	1M 174W Rd		

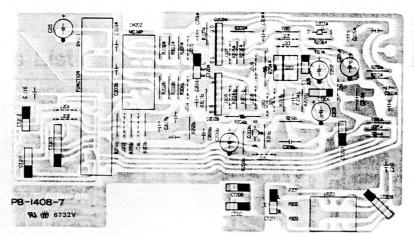
PB-1408-4





# PB-1408-5 Parts List

Symbol No.	Stock No. L410	Stock No. L430	Description
(Variable	Resistor)		
VR701	RV0295	RV0295	V16 K162A-50KEE Bass
VR702	RV0295	RV0295	V16 K162A-50KEE Treble
(Transistor)			
Q701		TR0351	2SC2320
Q702	TR0351	TR0351	2SC2320
Q703	TR0351	TR0351	2SC2320
(Capacitor	)		
C701a,b	CQ0010	CQ0010	0.039uF 50V My
C702a,b	CQ0013	CQ0013	0.022uF 50V My
C703a,b	CQ0178	CQ0178	0.12uF 50V My
C704a,b	CQ0007	CQ0007	0.068uF 50V My
C705	CE1753	CE1753	4.7uF 50V E1
C706a,b	CQ5078	CQ5078	470pF 50V St
**	CE1977B	CE1977B	4.7uF (BP) 50V E1
(Resistor)	Legge Commence		
R701a,b	RB0190	RB0190	2.2K 1/4W Rd
R702a,b	RB0202	RB0202	6.8K 1/4W Rd
R703a,b	RB0166	RB0166	220 1/4W Rd
R704a,b	RB0178	RB0178	680 1/4W Rd
R705a,b	RB0174	RB0174	470 1/4W Rd
R706		RB0198	4.7K 1/4W Rd
R707	normalista Nacionalista	RB0136	12 1/4W Rd
R708	RB0198	RB0198	47K 1/4W Rd
R709	RB0136	RB0136	12 1/4W Rd
R710	RB0198	RB0198	4.7K 1/4W Rd
R711	RB0136	RB0136	12 1/4W Rd



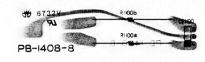
# PB-1408-7 Parts List

Symbol No			Description		
(Variable	L410 Resistor)	L430			
		DIIOOOC	W07010100		
VR201 (Switch)	RV0296	RV0296	K272A0100K Volume		
	CD0172	CD0172	D		
SW201	SR0173	SR0173	Rotary SRZW-84S Function		
SW202	SS0150	SS0150	Slide SUFR2435		
(IC & FET		T T C O 1 O 7			
0201	TC0187	TC0187	NJM4556D-H		
Q202a,b	TF0035	TF0035	2SK270 Dua1 (SD)		
0000		TF0037	2SK147 (J)		
0203a,b	TF0030	TF0030	2SK117Y		
(Capacito					
C201a,b	CM0056	CM0056	33pF 50V Mi		
C202	CE1731	CE1731	47uF 25V E1		
C203a,b	CQ5077	CQ5077	330pF 50V St		
C204a,b	CQ1436	CQ1436	4700pF 50V St		
C205a,b	CQ0253	CQ0253	0.1uF 50V My		
C206a,b	CE1717	CE1717	10uF 16V E1		
C207a,b	CQ0123	CQ0123	0.027uF 50V My		
C208a,b	CE1977B		4.7uF 50V		
	CE1977B		4.7uF BF 50V E1		
		CQ2011	3.3uF 250V My		
C209	CE1731	CE1731	47uF 25V E1		
C210	CQ1436	CQ1436	4700pF 50V St		
C216	CQ1436	CQ1436	4700pF 50V E1		
(Resistor	)				
R201a,b	RB0222	RB0222	47K 1/4W Rd		
R202a,b	RB0158	RB0158	100 1/4W Rd		
R203a,b	RB0166	RB0166	220 1/4W Rd (E,S,U		
R204a,b	RD2586	RD2586	1.5K 1/2W Rd		
R205a,b	RB0182	RB0182	1/2W Rd		
R206a,b	RB0180	RB0180	820 1/4W Rd		
R207a,b	RB0148	RB0148	39 1/4W Rd (E,S,U		
R208a,b	RB0168	RB0168	270 1/4W Rd (E, 5, 0		
R209a,b	RB0154	RB0154	68 1/4W Rd		
R210a,b	RB0260	1.00134	1.8K 1/4W Rd		
	100200	RB0258			
R211a,b	RB0254	RB0256			
R212a,b	RB0234	RB0234	1M 1/4W Rd		
R213a,b			33K 1/4W Rd		
and the second s	RB0192	RB0192	2.7K 1/4W Rd		
R214a,b	RB0156	RB0156	82 1/4W Rd		
R215a,b	RB0188	RB0188	1.8K 1/4W Rd		
R216a,b	RB0150	RB0150	47 1/4W Rd		

#### PB-1408-8

#### PB-1408-8 Parts List

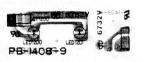
Symbol No.	Stock No.	Stock No. L430	Description
(Phone Jac)	k)		
	AJ0022	AJ0022	HLJ0305-01-020
(Resistor)			Marin III — La de la California de la Adjatoria de la California de la Cal
R1100a,b	RS5030	RS5030	470 3W Rf



## PB-1408-9 Parts List

	Symbol No.	Stock No.	Stock No.	Description
		L410	L430	
	(LED)			
	LED1200	Non Use	TD0237	SLB-15UU5
7	LED1201	Non Use	TD0237	SLB-15UU5

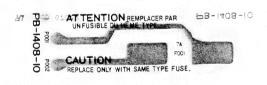




#### PB-1408-10 Parts List

		The second secon	
Symbol No.	Stock No.	Stock No.	Description
	L410	L430	
(Fuse Holde	er)		
F001	AH0029	Non Use	YSH-401T
(Fuse)			
F001	BF0082	Non Use	ULCS-MF61ML-5A (U)
	BF0121	Non Use	MF61ML-6A (J)

PB-1408-10

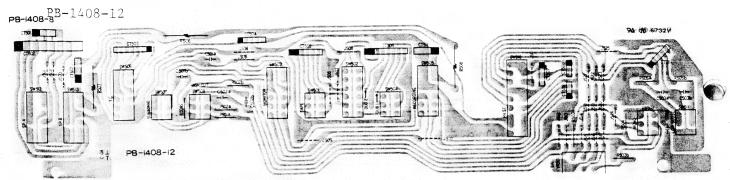


PB-1408-11

#### PB-1408-11 Parts List

Symbol No.	Stock No.	Stock No.	Description
(LED)	11110		
LED1 300	TD0237	TD0237	SLB-15UU5

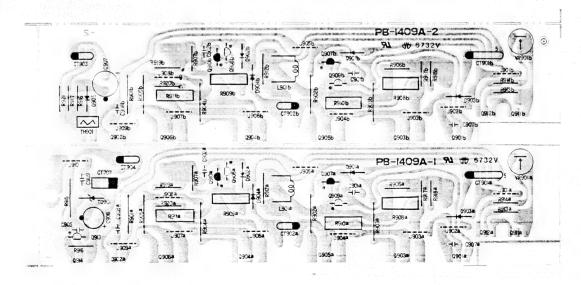




PB-1408-12 Parts List

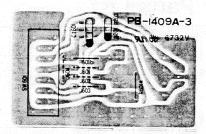
		The second second second second	
Symbol No.	Stock No. L410	Stock No. L430	Description *
(Switch)			
SW501-505	SP0282	SP0282	Push SUF53
SW506-508	SP0281	SP0281	Push SUN331A
SW509,511	SP0280	SP0280	Push SUN231A
SW510	SP0283	SP0283	Push SUF23
SW512,513	SP0262	SP0262	Push SUF23
(Capacitor	)		
C501a,b	CQ0004	CQ0004	0.015uF 50V My
C502a,b	CQ0027	CQ0027	6800pF 50V My
C503a,b	CQ0011	CQ0011	0.33uF 50V My
C504	CK0140	CK0140	0.047uF 50V Ce
C505	CK0140	CK0140	0.047uF 50V Ce
(Variable	Resistor)		
VR501	RV0294	RV0294	V16 K162A-250KMN Balance
(Resistor)			
R501a,b	RB0192	RB0192	2.7K 1/4W Rd
R502a,b	RB0254	RB0254	1M 1/4W Rd
R503a,b	RB0202	RB0202	6.8K 1/4W Rd
R504a,b	RB0254	RB0254	1M 1/4W Rd
R505a,b	RB0208	RB0208	12K 1/4W Rd
R506		RS2940	2.2K 2W Rf
R507		RS2940	2.2K 2W Rf
R508	RS2940	RS2940	2.2K 2W Rf

PB-1409A-1 PB-1409A-2



# PB-1409A-1,2 Parts List

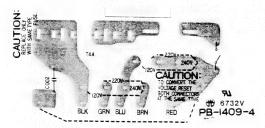
Symbol No	Stock No.	Stock No. L430	Descript	ion
(Variable		15430	la de la companya de	
VR901a,b	RT0006	RT0006	Semi SR19	מ א כ כ ב מ נ
(Choke Co:		RIOOO	Semi SKI	<u> </u>
	LA1020	T 41020	THY 1000	
L901a,b		LA1020	LUX-1020	
(Thremisto		T		
TH901	TV0011	TV0011	TD5-C320	
(Transisto				
Q901a,b	TR0299	TR0299	2SC2238B	
Q902a,b	TR0298	TR0298	2SA968B	
Q903a,b	TR0380	TR0380	2SC3182	
Q904a,b	TR0379	TR0379	2SA1265	
Q905a,b	Non Use	TR0380	2SC3182	
Q906a,b	Non Use	TR0379		
			2SA1265	
Q907a,b	TR0314	TR0314	2SA999	
0908a,b	TR0351	TR0351	2SC2320	
Q909a,b	TR0351	TR0351	2SC2320	
0910a,b	TR0314	TR0314	2SA999	
Q911a,b	TR0334	TR0334	2SC1903	
Q912a,b	TR0334	TR0334	2SC1903	
Q913	TR0351	TR0351	2SC2320	
Q914	TR0139	TR0139	2SD880	
(Capacitor		TRULDE	230000	
		000010	0.007==	
C901a,b	CQ0019	CQ0019	0.0047uF	
C902a,b	CQ0019	CQ0019	0.0047uF	
C905	CK0140		0.047uF	50V Ce
C906	CE1732		100uF	25V E1
C907	CE1722	CE1722	220uF	16V E1
C907a,b	CM0125	CM0125	47pF	500V Mi
C908a,b	CM0125	CM0125	47pF	500V Mi
C909	CK0140	31.0123	0.047uF	50V Ce
(Zener Dic			U.U4/UF	JU V UE
TD901		TDOOSE	117 220	Egypty (1995) (1995) Oraniya Sangga Bandana ay kabulana
	TD0085	TD0085	WZ-230	and the second s
(Diode)	TD0007	mpooo=	1.00 / 3	
D901a,b	TD0227	TD0227	1SS41	
D902a,b	TD0227	TD0227	1SS41	
D903a,b	TD5025	TD5025	152462	
D904a,b	TD5025	TD5025	1S2462	
D905a,b	Non Use	TD0227	1SS41	
(Resistor)				
R901a,b	RS2513L		120	1/2W Rf
R902a,b		RS2564	4.7	1/2W Rf
R903a,b	RS2564L	RS2564L	4.7	1/2W Rf
R904a,b	RS2564L	RS2564L	4.7	1/2W Rf
R905a,b		RS2564	4.7	1/2W Rf
R906a,b	RB0166	RB0166	220	1/4W Rd
R907a,b	RB0160		120	1/4W Rd
R908a,b	RG0075		0.22	5W Rc
		RG0102	0.22	3W Rc
R909a,b	RG0075		0.22	5W Rc
		RG0102	0.22	3W Rc
R910a,b		RG0102	0.22	3W Rc
		1.56		
R911a,b	DDOCOC	RG0102	0.22	3W Rc
R912a,b	RD2526	RD2526	4.7	1/4W Rd
R913a,b	RB0192	RB0192	2.7K	1/4W Rd
R914a,b	RB0184	RB0184	1.2K	1/4W Rd
	RS2524L	RS2524L	1K	1/2W Rf
R915		RB0270	4.7M	1/4W Rd
	KBUZ/U	1	470	1/4W Rd
R916	RB0270	RR0174		TII IXU
R916 R916a,b	RB0174	RB0174		
R916 R916a,b R917	RB0174 RB0214	RB0214	22K	1/4W Rd
R916 R916a,b R917 R917a,b	RB0174 RB0214 RB0174	RB0214 RB0174	22K 470	1/4W Rd 1/4W Rd
R915 R916 R916a,b R917 R917a,b R918a,b	RB0174 RB0214	RB0214 RB0174 RB0174	22K 470 470	1/4W Rd 1/4W Rd 1/4W Rd
R916 R916a,b R917 R917a,b R918a,b R919a,b	RB0174 RB0214 RB0174	RB0214 RB0174	22K 470	1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R916 R916a,b R917 R917a,b	RB0174 RB0214 RB0174	RB0214 RB0174 RB0174	22K 470 470	1/4W Rd 1/4W Rd 1/4W Rd



# PB-1409A-3 Parts List

Symbol No.	Stock No. L410	Stock No. L430	Description
(Switch)			
SW601	SS0135	SS0135	Slide SSB04202
(Resistor)			
R601a,b	RB0222	RB0222	47K 1/4W Rd
(Pin Jack)			
	AT0150	AT0150	4P T5757-AA

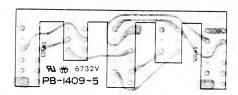
PB-1409-4



# PB-1409A-4 Parts List

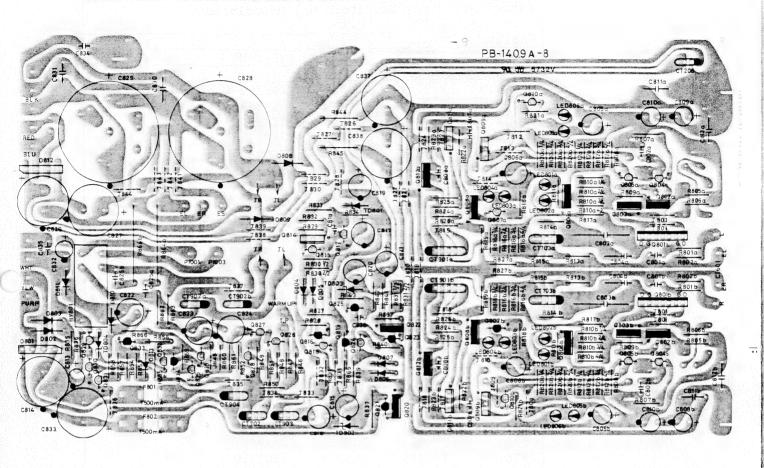
Symbol No.	Stock No.	Stock No.	Description	
	L410	L430		
(Fuse Hold	er)			
	AH0028	AH0028	23165102-C	(S)
	AH0029	AH0029	YSH-401T	(E)
(Fuse)				
F001	BF0118	BF0118	MF60NR-4A	(EK)
	BF0212		5120 3.15AT	(SK)
		BF0213	5x20 4A (T)	(S)
	BF0082		ULCS-MF61ML-5A	(EZ)
		BF0083	ULCS-MF61ML-6A	(EZ,U)
(Capacitor	)			,0,
C002	CU0080	CU0080	0.0047uF 400V	

PB-1409-5



# PB-1409A-5 Parts List

Symbol No.	Stock No.	Stock No.	Description		
	L410	L430			10 W. Chila
(Switch)					
SW501-505	SP0282	SP0282	Push SUF53	negative.	



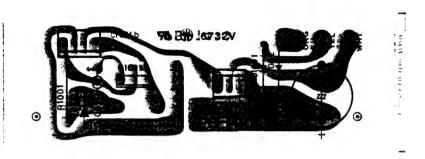
## PB-1409A-8 Parts List

Symbol No.	· · · · · · · · · · · · · · · · · · ·		Description	
	L410	L430		
(Fuse Hold	er)			
	AH0028	AH0028	23165102-C	
(Fuse)				
F801	BF0206	BF0206	5x20 0.5A-T	(S)
	BF0308	BF0308	MF51NR-0.5A	(T,J,U)
F802	BF0206	BF0206	5x20 0.5A-T	(S)
	BF0308	BF0308	MF51NR-0.5A	(E,J,U)
***		BF0208	5x20 1A-T	(S)
***		BF0305	MF51NR-1.5A	(E)

Symbol No.	Stock No.	Stock No	Description
	L410	L430	Description
(Relay)		1 1430	
RY801	AY1023	AY1023	VB-24MC
(Transisto		1	VD 24110
Q801a,b	TF0035	TF0035	2SK270 Dual FET
Q802a,b	TR0342	TR0342	2SA899-BV
Q803a,b	TR0342	TR0342	2SA899-BV
Q804a,b	TR0351	TR0351	2SC2320
Q805a,b	TR0351	TR0351	2SC2320
Q806a,b	TR0342	TR0342	2SA899-BV
Q807a,b	TR0314	TR0314	2SA999
Q808a,b	TR0342	TR0342	2SA899-BV
Q809a,b	TR0318	TR0318	2SC1904-BV
Q810a,b	TR0351	TR0351	2SC2320
Q811a,b	TR0318	TR0318	2SC1904-BV
Q812a,b	TR0342	TR0342	2SA899-BV
Q814	TR0159	TR0159	2SD415
0815	TR0351	TR0351	2SC2320
Q816	TR0314	TR03314	2SA999
Q817	TR0351	TR0351	2SC2320
Q818	TR0351	TR0351	2SC2320
Q819	TR0314	TR0314	2SA999
Q820	TR0158	TR0158	2SB549
Q822	TR0158	TR0158	2SB549
Q823	TR0314	TR0314	2SA999
Q824	TR0351	TR0351	2SC2320
0825	TR0314	TR0314	2SA999
Q826	TR0351	TR0351	2SC2320
Q827	TR0351	TR0351	2SC2320
0828	TR0351	TR0351	2SC2320
Q829	TR0351	TR0351	2SC2320
Q830	TR0351	TR0351	2SC2320
Q831	TR0351	TR0351	
Q831 Q832	TR0351	TR0351	2SC2320 2SC2320
Q833	TR0331	TR0331	2SA999
Q834	TR0314		
Q835	TR0314	TR0314	2SA999 2SC2320
0836	TR0351	TR0351 TR0351	
(Diode)	TCCONT	TCCONT	2SC2320
D801	TD0137	TD0137	S1VB10 Bridge
D802	TD0002	TD0002	1N4002
D803	TD0002	TD0002	1N4002 1N4002
D805	TD0002	TD0227	1SS41
D806	TD0227	TD0227	18841
D807	TD0227	TD0227	15541 1SS41
D808	TD0002	TD0002	18541 1N4002
D809	TD0002	TD0002	
D810	TD0002	TD0227	1N4002
D811	经国际股份的 化光光电池 医二甲二甲基甲基	the state of the s	18841
D812	TD0227 TD0139	TD0227	1SS41
D812		TD0139	S1VB20 Bridge
(Resistor)	TD0227	TD0227	18841
D804	RB0170	RB0170	330 1/4W Rd
2004	MUTIO	TOUT/U	JJU 1/4W KQ

Symbol No.		Stock No.	Descript	ion
	L410	L430		
(Zener Dio		1		
TD801	TD0043	TD0043	WZ-130	
TD802	TD0085	TD0085	WZ-230	
TD803	TD0043	TD0043	WZ-130	
TD804	TD0060	TD0060	WZ-061	
(LED)		<del></del>		
LED801a,b	TD0238	TD0238	TLR124	
LED802a,b	TD0238	TD0238	TLR124	
LED803a,b	TD0238	TD0238	TLR124	
LED804a,b	TD0238	TD0238	TLR124	
LED805a,b	TD0238	TD0238	TLR124	
LED806a,b	TD0238	TD0238	TLR124	•
(Capacitor	)			
C801a,b	CQ3017		100pF	St
		CQ1403	100pF	50V St
C802a,b	CQ1441	C01441	6800pF	·50V St
C803a,b	CQ5080		1500pF	50V St (E,S,U)
		CM0174	22000pF	100V My
C804a,b	CE1977B	0.1017	4.7uF BP	50V E1
	ODES / / D	C00700	3.3uF	100V E1
C805a,b	CE1712	CE1712	220uF	10V E1
C806a,b	CE1712	CE1712	220uF	10V E1
C807a,b	CM0125	CM0125	47pF	500V Mi
C808a,b	CM0125	CM0125	47pF	500V Mi
C809a,b	CE1778	CE1778		
C810a,b	CE1778		22uF	100V E1
C813		CE1778	22uF	100V E1
C814	CE1750	CE1750	luF	50V E1
C815	CE1748	CE1748	2200uF	35V E1
(013	CE1732	GT1700	100uF	25V E1
0016	071700	CE1733	220uF	25V E1
C816	CE1732	CE1732	100uF	25V E1
C817	CE1722		220uF	16V E1
		CE1952	220uF	16V E1
C819	CE1731	CE1731	47uF	25V E1
C820	CE1722	CE1722	220uF	16V E1
		CE1952	220uF	16V E1 (J)
C821	CE1731	CE1731	47uF	25V E1
C822	CE1713	CE1713	330uF	10V E1
C823	CE1714	CE1714	470uF	10V E1
C824	CE1714	CE1714	470uF	10V E1
C825a,b	CQ3063	CQ3063	0.047uF	100V Pp
C826	CE1794	CE1794	470uF	100V E1
C827	CE1794	CE1794	470uF	100V E1
C828	CE1032		15000uF	56V E1 (S,E,U)
	CE4098		15000uF	55V E1 (J)
		CE1031	15000uF	63V E1 (S,E)
		CE4097	15000uF	63V E1 (J,U)
C829	CE1032		15000uF	56V E1 (S,E,U)
	CE4098		15000uF	55V E1 (J)
		CE1031	15000uF	63V E1 (S,E)
		CE4097	15000uF	63V E1 (J,U)
C832	CE1749	CE1749	0.47uF	50V E1
C833	CE1748	CE1748	2200uF	35V E1
C834	CK0140	CK0140	0.047uF	50V Ce
C835	CK0140	CK0140	0.047uF	50V Ce
C837	CE1794	CE1794	470uF	100V E1
C838	CE1794	CE1794	470uF	100V E1
	JA1177	UH1177	7/0UF	TOOA ET

Symbol No.	Stock No. L410	Stock No. L430	Descripti	ion
(Resistor)			i	
R801a,b	RB0174	RB0174	470	1/4W Rd
R802a.b	RB0252	RB0252	820K	1/4W Rd
R804	1130232	RB0170	330	
	DBO224			1/4W Rd
R805a,b	RB0224	RB0224	56K	1/4W Rd
R806a,b	RB0224	RB0224	56K	1/4W Rd
R806		RB0170	330	1/4W Rd
R807a,b	RB0160	RB0160	120	1/4W Rd
R808a,b	RB0160	RB0160	120	1/4W Rd
R809a,b	RB0186	RB0186		
		KBOIGO	1.5K	1/4W Rd
R810a,b	RB0204		8.2K	1/4W Rd
		RB0208	12K	1/4W Rd
R81la,b	RB0170	RB0170	330	1/4W Rd
R812a,b		RB0238	240Kx4	1/4W Rd
R813a,b	RB0142	RB0142	22	1/4W Rd
R814a,b				
	RB0254	RB0254	1M	1/4W Rd
R815a,b	RB0154	RB0154	68	1/4W Rd
R816a,b	RB0203		7.5Kx4	1/4W Rd
		RB0208	12Kx4	1/4W Rd
R817a,b	RB0270	RB0270	4.7M	1/4W Rd
R818a,b	RB0166	RB0166	220	
1	VDOTOR			1/4W Rd
R819a,b		RB0270	4.7M	1/4W Rd
R820a,b	RB0236		180K	1/4W Rd
		RB0238	220Kx4	1/4W Rd
R821a,b	RB0236		180K	1/4w Rd
		PR0220		· ·
	DD0166	RB0238	220K	1/4W Rd
	RB0166		220	1/4W Rd
R822a,b	RS1849	RS1849	100	1/4W Rf
R823a,b	RS1849	RS1849	100	1/4W Rf
R825a,b	RS1849	RS1849	100	1/4W Rf
1		ł .		
R826a,b	RS1849	RS1849	100	1/4W Rf
R827	RB0208	RB0208	12K	1/4W Rf
R828	RB0176	RB0176	560	1/4W Rd
R830 1/2	RB0194	RB0194	3.3K	1/4W Rd
R830 2/2	RB0182		1K	1/4W Rd
1.030 2/2	100101	RB0192	2.7K	
2021 1/2	BB010/			1/4W Rd
R831 1/2	RB0194	RB0194	3.3K	1/4W Rd
R831 2/2	RB0182		1K	1/4W Rd
		RB0192	2.7K	1/4W Rd
R832	RS1849	RS1849	100	1/4W Rd
R833		RB0220	39K	1/4W Rd
R834	RB0208		12K	1/4W Rd
1.034	100200	PP0216		_,
2025	PP0000	RB0216	27K	1/4W Rd
R835	RB0208	RB0208	12K	1/4W Rd
R836	RB0208	RB0208	12K	1/4W Rd
R837	RS2524	RS2524	1K	1/2W Rf
R839	RB0208	RB0208	12K	1/4W Rd
R840	RB0176		560	
		RB0176		1/4W Rd
R841	RS1825	RS1825	10	1/4W Rf
R842	RB0194	RB0194	3.3K	1/4W Rd
R843	RB0208		12K	1/4W Rd
		RB0216	27K	1/4W Rd
R844	RS1849			1/4W Rf
1		RS1849	100	•
R845	RS1849	RS1849	100	1/4W Rf
R846	RB0238	RB0238	220K	1/4W Rd
R847	RB0270	RB0270	4.7M	1/4W Rd
R848	RB0206	RB0206	10K	1/4W Rd
1				
R849	RB0206	RB0206	10K	1/4W Rd
R850	RB0198		4.7K	1/4W Rd
		RB0270	4.7M	1/4W Rd
R851	RB0206	RB0206	10K	1/4W Rd
j	RB0136	RB0136	12	1/4W Rd
	RB0196	RB0196		
		i	3.9K	1/4W Rd
I DOE /	RB0208	RB0208	12K	1/4W Rd
	DDOOOC	RB0206	10K	1/4W Rd
	RB0206		10K	1/4W Rd
R855	RB0206	RB0206	TOK	I/4W KG
R855 R856	RB0206			
R855 R856 R857	RB0206 RB0224	RB0224	56K	1/4W Rd
R855 R856 R857 R858	RB0206 RB0224 RB0150	RB0224 RB0150	56K 47	1/4W Rd 1/4W Rd
R855 R856 R857 R858 R859	RB0206 RB0224	RB0224	56K	1/4W Rd 1/4W Rd 1/4W Rd
R855 R856 R857 R858 R859	RB0206 RB0224 RB0150	RB0224 RB0150	56K 47	1/4W Rd 1/4W Rd
R855 R856 R857 R858 R859 R860	RB0206 RB0224 RB0150 RB0206 RB0194	RB0224 RB0150 RB0206 RB0194	56K 47 10K 3.3K	1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R855 R856 R857 R858 R859 R860 R861	RB0206 RB0224 RB0150 RB0206 RB0194 RB0198	RB0224 RB0150 RB0206 RB0194 RB0198	56K 47 10K 3.3K 4.7K	1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R855 R856 R857 R858 R859 R860 R861 R862	RB0206 RB0224 RB0150 RB0206 RB0194 RB0198 RD2602	RB0224 RB0150 RB0206 RB0194 RB0198 RD2602	56K 47 10K 3.3K 4.7K 6.8K	1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/2W Rd
R855 R856 R857 R858 R859 R860 R861 R862	RB0206 RB0224 RB0150 RB0206 RB0194 RB0198 RD2602 RD2602	RB0224 RB0150 RB0206 RB0194 RB0198 RD2602 RD2602	56K 47 10K 3.3K 4.7K 6.8K 6.8K	1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/2W Rd 1/2W Rd
R855 R856 R857 R858 R859 R860 R861 R862 R863	RB0206 RB0224 RB0150 RB0206 RB0194 RB0198 RD2602	RB0224 RB0150 RB0206 RB0194 RB0198 RD2602	56K 47 10K 3.3K 4.7K 6.8K	1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/2W Rd



#### PB-1410 Parts List

Symbol NO.	Stock No. L410	Stock No.	Description	on		
(Transisto		114.50				
Q1001	Non Use	TR0159	2SD415			(J)
Q1002	Non Use	TR0351	2SC2320			(J)
(Diode)			1			
D1001	Non Use	TD0002	1N4002			(J)
D1002	Non Use	TD0002	1N4002			(J)
(Zener)						
TD1001	Non Use	TD0085	WZ-230			(J)
(Capacitor	)					
C1001	Non Use	CE1747	1000uF	35V	E1	(J)
(Resistor)						
R1001	Non Use	RS2524	1K	1/2W	Rf	(J)

#### Remarks

Capacitor: El....Electrolytic, Ce....Ceramic, My....Mylar, Pp....Polypropylene, Mi....Mica, St....Styrol.

Resistor: Rd.....Carbon, Rm.....Metal Film, Rf.....Flame Proof.

\*In this manual the parts, which differs depending on destination and mains voltage, are classified indicated as follow:

SK, SD, EK: 220V For Europe, South East Asia.

SG,SB,EG: 240V For England, Oceania

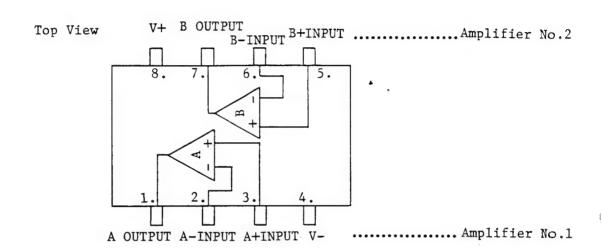
EZ,UP : 120V For Noth America, South East Asia

J : 100V For Japan

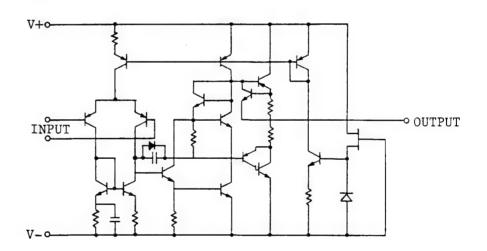
\*\*\*E Type all with line voltage selector

## IC Handling Guide

IC NJM4556D-H (Stock No. TC0187)
(Dual High Current Operational Amplifier)



Equivalent Circuit (1/2)



#### Note

Power Transistor (Complementary Pair)

L-410 (Symbol No. Q903a,b & Q904a,b)

2SC3182

2SC2706

2SA1265 c

or

2SAl146 (First Lot)

L-430 (Symbol No. Q903a,b Q905a,b Q904a,b Q906a,b)

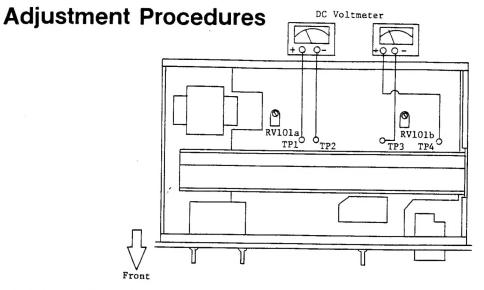
2SC3182

2SC2706

2SA1265

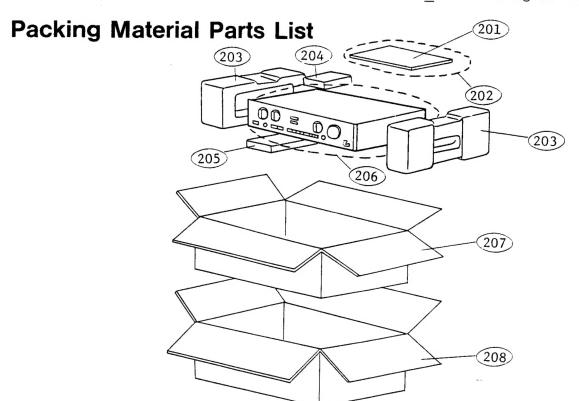
or

2SA1146 (First Lot)



Bias (Idle) Current Adjustment

- 1. Connect a DC Voltmeter in between TP1 and TP2 on L-ch and or TP4 and TP3 on R-ch, Making TP1 and TP4 positive respectively.
- 2. Adjust the RV101a and RV101b to obtain  $15\,\mathrm{mV}$   $\pm$   $5\,\mathrm{mV}$  reading on the meter.



Symbol No.	Stock No. L-230	Stock No. L-400	Description
201	ME0253-2	MA0163	Owner's Manual Sack, Poly Pkg, Tray Pad, Pkg Pad, Pkg Sack, Poly Carton, Pkg Carton, Bulk Pkg
202	56B40230G21	56B40230G21	
203	56C56637F01	56C56637F01	
204	56A58581F01	56A58581F01	
205	56A57423F04	56A57423F04	
206	56B40230G23	56B40230G23	
207	56C53420F32	56C53420F42	
208	56C53420F32	Non Use	

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